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PPLICATION NO.	FII	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/807,862	. 0	3/24/2004	Andrew Lee Thompson	871-011717-US(PAR)/300206 5482		
2512	7590	06/14/2005	•	EXAMINER		
PERMAN &		1		DUONG, THO V		
FAIRFIELD.	+	24		ART UNIT PAPER NUMBER		
				3743		
				DATE MAILED: 06/14/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	<i>9</i> ,0					
Office Addison Commence	10/807,862	THOMPSON ET AL.						
Office Action Summary	Examiner	Art Unit						
	Tho v. Duong	3743						
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence address						
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by stany reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a reply within the statutory minimum of thi riod will apply and will expire SIX (6) MO atute, cause the application to become A	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).	on.					
Status								
1)⊠ Responsive to communication(s) filed on 3	1 March 2005.		3					
•	This action is non-final.							
3) Since this application is in condition for allo	<u>- </u>							
closed in accordance with the practice und	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
 4) ⊠ Claim(s) 1-10 is/are pending in the applicat 4a) Of the above claim(s) is/are withen 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-6 is/are rejected. 7) ⊠ Claim(s) 7-10 is/are objected to. 	4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) <u>1-6</u> is/are rejected.							
, _ · · · · · · · · · · · · · · · · · ·	Claim(s) are subject to restriction and/or election requirement.							
Application Papers								
9)☐ The specification is objected to by the Exam	niner.							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the cor 11) The oath or declaration is objected to by the			(d).					
Priority under 35 U.S.C. § 119								
12) ☐ Acknowledgment is made of a claim for fore a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority docum 2. ☐ Certified copies of the priority docum 3. ☐ Copies of the certified copies of the papplication from the International But * See the attached detailed Office action for a	nents have been received. The sents have been received in a periority documents have been reau (PCT Rule 17.2(a)).	Application No n received in this National Stage						
Attachment(s)								
1) Notice of References Cited (PTO-892)		Summary (PTO-413)						
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB Paper No(s)/Mail Date 		(s)/Mail Date Informal Patent Application (PTO-152) 						

DETAILED ACTION

Receipt of applicant's amendment filed 3/31/2005 is acknowledged. Claims 1-10 are pending.

Response to Arguments

Applicant's arguments filed 3/31/2005 have been fully considered but they are not persuasive. Applicant's argument that both Hamano and Yan fail to disclose the heat sink being pivoted by the insertion of the equipment module such that a surface of the heat sink is brought into contact with a surface of the equipment module, has been very carefully considered but is not found to be persuasive. Applicant further argues that as recited in claim 1, whereby it is the action of inserting the equipment module into the alignment means that causes the heat sink to be pivoted in such a way that a surface of the heat sink is brought into contact with a surface of the equipment module. In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., whereby it is the action of inserting the equipment module into the alignment means...with a surface of the equipment module) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See In re Van Geuns, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). Since the examiner must give the claim their broadest reasonable interpretation, both reference to Hamano and Yan are considered to anticipate the claimed invention in which the pivoting of the heat sink is initiated by the insertion of the equipment module. Because of the insertion of the equipment module, a chain of actions are followed such as rotating the heat sink to open up a path for placing a new testing equipment module; removing the old equipment module; placing the equipment module into the socket and at last rotating the heat sinks into a closed position to lock

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the equipment module in place to complete the insertion of the equipment module. Without the insertion of the new equipment module, the heat sinks are not needed to be rotated. Therefore, both Hamano and Yan's heat sinks are considered to be pivoted by the insertion of the equipment module.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Hamano (US 6,366,463). Hamano discloses (figures 6,8,9,11 and column 6, lines 36-43) a heat sink arrangement configured to receive an equipment module (16), the heat sink arrangement comprising alignment means (21-1,21-2) to engage with the heat sink arrangement and a pivotable heat sink (21), the heat sink (21) being pivoted by the insertion of the equipment module such that a surface of the heat sink is brought into contact with a surface of the equipment module; the heat sink arrangement further comprises an aperture (socket 18) for receiving the equipment module and the pivotable heat sink (21) has a surface, which is inclined (vertically in a complete open position shown in figure 11) such that the surface that make contact with the equipment module is presented towards the aperture (18); the heat sink arrangement further comprises one or more faces having one or more protrusions (21-6); the heat sink is a gas cooling apparatus; the surface of the pivotable heat sink that make contact with the equipment comprises a material (21-3) that increase the diffusion of heat from the equipment

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module and the heat sink arrangement further comprises a heat pipe (22) for supporting the heat sink.

Claims 1-3 and 5-6 are rejected under 35 U.S.C. 102(a) as being anticipated by Yan et al. (US 6,447,322). Yan discloses (figures 1-3) a heat sink arrangement configured to receive an equipment module (12), the heat sink arrangement comprising alignment means (14) to engage with the heat sink arrangement and a pivotable heat sink (20), the heat sink (20) being pivoted by the insertion of the equipment module such that a surface of the heat sink is brought into contact with a surface of the equipment module; the heat sink arrangement further comprises an aperture (32) for receiving the equipment module and the pivotable heat sink (20) has a surface (42) which is inclined (vertically in a complete open position) such that the surface (42) that make contact with the equipment module is presented towards the aperture (32); the heat sink arrangement further comprises one or more faces having one or more protrusions (34,40); the heat sink is a gas cooling apparatus; the surface (42) of the pivotable heat sink comprises a material (22) that increase the diffusion of heat from the equipment module.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yan (US 6,447,322) in view of Garner et al. (US 5,822,187). Yan substantially discloses all of applicant's claimed invention as discussed above except for the limitation that a support structure such as a

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pivot pin (44) is a heat pipe. Garner discloses a heat dissipating assembly that has a pivot pin (20) is a heat pipe for the purpose of transferring heat between hinged devices so that heat is further dissipated from the heat source. It would have been obvious to one having ordinary skill in the art at the time the invention was made to use Garner's teaching in Yan's device for the purpose of transferring heat between hinged devices so that heat is further dissipated from the heat source.

Allowable Subject Matter

Claims 7-10 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 7-10 use means plus function format, it give rises to the interpretation under 35 USC 112, par. 6 in light of and consistent with the written description of the invention in the application. In the disclosure, the "guide means for engaging with the alignment means of the heat sink arrangement" is pointed out as element (14).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Nakamura et al. (US 2003/0032322A1) discloses a semiconductor device socket.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

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MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tho v. Duong whose telephone number is 571-272-4793. The examiner can normally be reached on M-F (first Friday off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Bennet can be reached on 571-272-4791. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tho v Duong
Primary Examiner

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June 6, 2005